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| **RTOP**  **Indicator** | **Indicator Description** | **Thoroughly**  **Addressed** | **Adequately Addressed** | **Some Evidence** | **No Evidence** |
| \_ | Aligned with PA Core or Next Generation Science Standards |  |  |  |  |
| \_ | Strong correlation between lesson objectives and assessment methods |  |  |  |  |
| \_ | Incorporates NASA content and/or resources within the lesson |  |  |  |  |
| \_ | Integrates available technology |  |  |  |  |
| #1 | Provides opportunities to help students to activate prior knowledge |  |  |  |  |
| #2 | Structures lesson to engage students as members of a learning community |  |  |  |  |
| #4, #5 | Utilizes a problem based/inquiry learning model in which students make predictions, estimations and /or hypotheses with a means for testing them |  |  |  |  |
| #12, 14 | Describes structured activities requiring student exploration, self-assessment, elaboration and reflection |  |  |  |  |
| #11, 16 | Indicates how students will use a variety of means to represent phenomena |  |  |  |  |
| #10 | Connects with other content discipline and/or real world phenomena |  |  |  |  |
|  | Incorporates the use of modeling, guided practice and independent practice |  |  |  |  |
|  | Identifies and/or provides an authentic real-world problem relevant to the students for them to solve |  |  |  |  |
|  | Addresses each of the 5 E’s—engage, explore, explain, extend, and evaluate |  |  |  |  |